

Title (en)
Adaptive antenna receiving apparatus

Title (de)
Angepasstes Antennenempfangsgerät

Title (fr)
Appareil de réception par antennes adaptatif

Publication
EP 1231720 A3 20031210 (EN)

Application
EP 02002020 A 20020206

Priority
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Abstract (en)
[origin: EP1231720A2] In an adaptive antenna receiving apparatus, a plurality of correlations between adjacent antennas are detected for each path, a fixed beam unique to each path arrival direction of the desired wave is formed on the basis of a vector generated by averaging the detected correlations, and each path is received and combined, or a plurality of correlations between adjacent antennas are detected for each signal sequence despread with a plurality of chip timings, a fixed beam unique to the arrival direction of each signal sequence is formed on the basis of a vector generated by averaging the detected correlations, and a path timing is detected on the basis of a delay profile generated from an output of each signal sequence, or a plurality of correlations between adjacent antennas are detected for each signal sequence despread with a plurality of chip timings, a fixed beam unique to the arrival direction of each signal sequence is formed on the basis of a vector generated by averaging the detected correlations, a path timing is detected on the basis of a delay profile generated from an output of each signal sequence, and each path is received and combined using the path timing and the fixed beam at the path timing. <IMAGE>

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H04B 1/707; **H04B 7/08**

IPC 8 full level
H01Q 3/26 (2006.01); **H04B 1/707** (2011.01); **H04B 1/7115** (2011.01); **H04B 7/08** (2006.01)

CPC (source: EP KR US)
H01Q 3/26 (2013.01 - KR); **H04B 1/712** (2013.01 - EP US); **H04B 7/0854** (2013.01 - EP US); **H04B 7/086** (2013.01 - EP US);
H04B 1/7113 (2013.01 - EP US)

Citation (search report)

- [YA] GB 2336741 A 19991027 - FUJITSU LTD [JP]
- [DYA] US 6064338 A 20000516 - KOBAYAKAWA SHUJI [JP], et al
- [PA] EP 1161001 A2 20011205 - NEC CORP [JP]
- [A] WO 0038276 A1 20000629 - CHOI SEUNG WON [KR]
- [A] EP 0949769 A1 19991013 - NEC CORP [JP]
- [A] YLITALO J ET AL: "PERFORMANCE EVALUATION OF DIFFERENT ANTENNA ARRAY APPROACH FOR 3G CDMA UPLINK", VTC 2000-SPRING. 2000 IEEE 51ST. VEHICULAR TECHNOLOGY CONFERENCE PROCEEDINGS. TOKYO, JAPAN, MAY 15-18, 2000, IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, NY: IEEE, US, vol. 2 OF 3. CONF. 51, 15 May 2000 (2000-05-15), pages 883 - 887, XP000967997, ISBN: 0-7803-5719-1
- [A] TANAKA S ET AL: "PILOT SYMBOL-ASSISTED DECISION-DIRECTED COHERENT ADAPTIVE ARRAY DIVERSITY FOR DS-CDMA MOBILE RADIO REVERSE LINK", IEICE TRANSACTIONS ON FUNDAMENTALS OF ELECTRONICS, COMMUNICATIONS AND COMPUTER SCIENCES, INSTITUTE OF ELECTRONICS INFORMATION AND COMM. ENG. TOKYO, JP, vol. E80-A, no. 12, 1 December 1997 (1997-12-01), pages 2445 - 2453, XP000768670, ISSN: 0916-8508
- [A] NAGUIB A F ET AL: "RECURSIVE ADAPTATIVE BEAMFORMING FOR WIRELESS CDMA", COMMUNICATIONS - GATEWAY TO GLOBALIZATION. PROCEEDINGS OF THE CONFERENCE ON COMMUNICATIONS. SEATTLE, JUNE 18 - 22, 1995, PROCEEDINGS OF THE CONFERENCE ON COMMUNICATIONS (ICC), NEW YORK, IEEE, US, vol. 3, 18 June 1995 (1995-06-18), pages 1515 - 1519, XP000535014, ISBN: 0-7803-2487-0

Cited by
EP1583258A1; FR2888064A1; EP1161001A3; EP1365521A1; EP1564899A4; US7565172B2; WO2007003847A3; US6985106B2

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